·	Application No.	Applicant(s)	
	Application No.		
Notice of Allowability	10/790,755	YAMANO ET AL.	
	Examiner	Art Unit	
	Teresa M. Bonk	3725	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due cours	se. THIS
1. X This communication is responsive to 3/24/2006.			
2. The allowed claim(s) is/are <u>1-8</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Applicat	ion No	from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the require	ments
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		٠.
(a) ☐ including changes required by the Notice of Draftspers		ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on he header according to 37 (the drawings in the front (not the back FR 1.121(d).	k) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			the
Attachment(s)		÷.	
1. Notice of References Cited (PTO-892)		nformal Patent Application (PTO-15	2)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), o./Mail Date	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		s Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. 🗌 Examiner	s Statement of Reasons for Allowan	ce
·	9. 🗌 Other		
	SUP	DERRIS H. BANKS ERVISORY PATENT EXAMINER ECHNOLOGY CENTER 3700	

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NOTICE OF ALLOWANCE

1. Regarding claim 1, it is in the opinion of the examiner that the art of record neither anticipates nor renders obvious "wherein a convex portion extending toward the die is formed at a tope area of the punch corresponding to a site to be formed at the initial stage of forming" in combination with the rest of the claimed limitations set forth in the independent claim.

Based on applicant's arguments and the examiner's review of the Office Action dated December 27, 2005, the claimed subject matter above is deemed to be allowable. Further clarification can be reviewed in the applicant's arguments on pages 6-7.

However the above prior art fails to disclose a reasonable combination of "wherein a convex portion extending toward the die is formed at a tope area of the punch corresponding to a site to be formed at the initial stage of forming."

2. Regarding claims 3 and 6, it is in the opinion of the examiner that the art of record neither anticipates nor renders obvious "wherein the clearances CL3 and CL4 are set so as to satisfy the following expressions (3) and (4), respectively:

$$0.8 \times t \le CL3 \le 1.2 \times t$$
 (3)

$$CL4 \ge CL3 + t$$
 (4)

Where t denotes the thickness of the metal sheet to be formed" in combination with the rest of the claimed limitations set forth in the independent claim.

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Further searching by the examiner yielded additional prior art as follows: Shimizu (US Patent 5,544,517) and Miyauchi et al. (US Publication 2002/0083754), which were discussed in the previous Office Action dated, December 27, 2005.

However the above prior art fails to disclose a reasonable combination of "wherein the clearances CL3 and CL4 are set so as to satisfy the following expressions (3) and (4), respectively:

$$0.8 \times t \le CL3 \le 1.2 \times t$$
 (3)

$$CL4 \ge CL3 + t \tag{4}$$

Where t denotes the thickness of the metal sheet to be formed."

3. Regarding claim 4, it is in the opinion of the examiner that the art of record neither anticipates nor renders obvious "wherein the clearances CL1 and CL2 are set so as to satisfy the following expressions (1) and (2), respectively:

$$0.8 \times t \le CL1 \le 1.2 \times t$$
 (1)

$$CL2 \ge CL1 + t \tag{2}$$

Where t denotes the thickness of the metal sheet to be formed" in combination with the rest of the claimed limitations set forth in the independent claim.

Based on applicant's arguments and the examiner's review of the Office Action dated December 27, 2005, the claimed subject matter above is deemed to be allowable. Further clarification can be reviewed in the applicant's arguments on pages 7-10.

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However the above prior art fails to disclose a reasonable combination of "wherein the clearances CL1 and CL2 are set so as to satisfy the following expressions (1) and (2), respectively:

$$0.8 \times t \le CL1 \le 1.2 \times t$$
 (1)

$$CL2 \ge CL1 + t \tag{2}$$

Where t denotes the thickness of the metal sheet to be formed."

4. Regarding claim 5, it is in the opinion of the examiner that the art of record neither anticipates nor renders obvious "wherein in the forming jig, a clearance CL4 between the forming jig and the die in the vicinity of a die shoulder of the die is set so as to be wider than a clearance CL3 between the forming jig and the die in a forming area other than the vicinity of the die shoulder of the die" in combination with the rest of the claimed limitations set forth in the independent claim.

Based on applicant's arguments and the examiner's review of the Office Action dated December 27, 2005, the claimed subject matter above is deemed to be allowable. Further clarification can be reviewed in the applicant's arguments on pages 10-11.

However the above prior art fails to disclose a reasonable combination of "wherein in the forming jig, a clearance CL4 between the forming jig and the die in the vicinity of a die shoulder of the die is set so as to be wider than a clearance CL3 between the forming jig and the die in a forming area other than the vicinity of the die shoulder of the die."

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5. Therefore, it is concluded by the examiner that claims 1-8 of the present invention are

allowable.

6. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Teresa M. Bonk whose telephone number is (571) 272-1901.

The examiner can normally be reached on M-F 7:30AM - 5PM with alternating Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Derris Banks can be reached on (571) 272-4419. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Teresa M. Bonk Examiner Art Unit 3725